I. Proposal

Paragraph 6.2.12., amend to read:

"6.2.12. In **the** case of ~~booster cushions~~ **non-integral child restraint systems**, the ease with which the straps and tongue of an adult belt pass through the fixture points shall be examined. ~~This goes particularly for booster cushions which are designed for the front seats of cars, which may have long semi-rigid stalks.~~

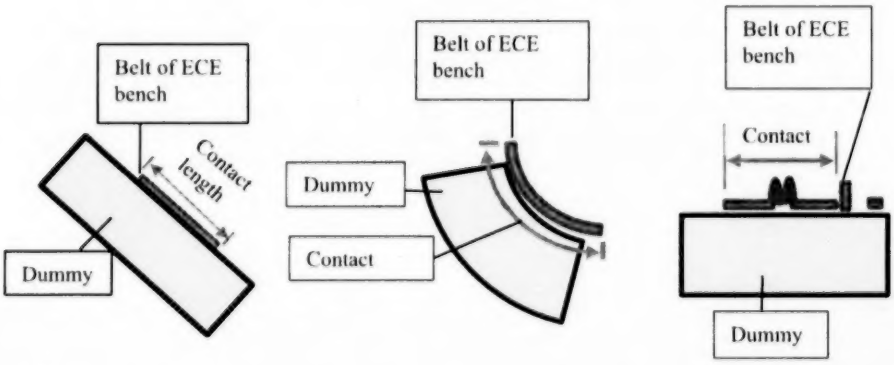
The ~~fixed~~ **simulated** buckle **when installed on the bench, prior to all dynamic tests, shall** ~~should~~ not ~~be allowed~~:

(a) ~~to~~ pass through the fixture points **or belt guides** of ~~booster seats~~ **non-integral child restraint systems, or**

(b) ~~to~~ permit a lie of **the** belt ~~completely different from that of the test-trolley~~ **that leads to any contact narrower than 38 mm between the adult belt or simulated buckle and the child.**

Measurement method:

The width of the contact between the belt and the dummy shall be assessed by measuring the minimum length between the effective sides of the belt. If the belt, as seen in a cross section, takes the shape of a curve, the outside contour of the curve is measured. If the belt in cross section has folds, the contact length is defined from one side to the other side of the belt.



"

Paragraph 9.1., amend to read:

"9.1. The test report shall record the results of all test and measurement including the following test data:

...

(g) The place occupied by the buckle during the tests, ~~if it can be varied~~, **and/or pictures of the simulated buckle in case of testing of non-integral child restraint systems,** and

..."

II. Justification

1. Injury to the human body as a result of strong local pressure shall be prevented. Such injuries can be caused by twisted buckles and belts, and also by twisted tongues.

2. UN Regulation No. 16 set provisions to check injuries caused by narrow contact with buckle and safety-belt (paragraphs. 6.2.2.1. and 6.3.1.1.).

3. During the previous sessions of GRSP, the provisions of UN Regulation No. 44, paragraph 7.2.1.1. had been improved by adding the tongue to prevent these injuries. However, paragraph. 7.2. was eventually intended only for individual components of integral child restraints!

4. Therefore UN Regulation No. 44 should be improved by also checking non-integral child restraints (e.g. booster!).

5. In the previous GRSP session the expert from the Netherlands attempted to improve paragraph. 6.2.12. by means of a generic buckle. However, the above proposal improves the test provisions by using the original Standard Safety-belt of UN Regulation No. 44, which is also better documented in the test report.